Joint Program Executive Office
Joint Tactical Radio System

JTRS Overview Brief

Agenda

- JTRS Program Background
- International Considerations
- UK Interest Issues

JTRS Background

- Program purpose: develop, produce, integrate and field a family of interoperable, digital, modular, software-defined radios that operate as nodes in a network to ensure secure wireless communications and networking services for mobile and fixed forces.
  - JTRS products envisioned to receive, transmit, route and relay voice, data and video
- JTRS program was initially established based on the need to:
  - Replace legacy radios
  - Address key shortfalls in battlefield communications capabilities
  - Bring separate Service-led radio programs together into a joint development effort
- Program rationale/requirements also included over time the need to:
  - Enable mobile wireless ad hoc networking
  - Enable information superiority through network centric warfare and communications interoperability across the service components and Allied forces
  - Ability to port and reuse software on a variety of hardware configurations – Reduce life cycle cost
- Individual developments for specific war fighting platforms were called Clusters

JTRS Background
A Transformational Enabler

- Seven pillars of the Global Information Grid (GIG)
  - Transformation Communications Architecture
  - Global Information Grid – Bandwidth Expansion
  - Teleports
  - JTRS – "the first tactical mile"
    - Mobile ad-hoc networking and Cross-banding
  - GIG Enterprise Services (GES)/Net-Centric Enterprise Services (NCES)
  - Information Assurance (IA) initiatives
  - Internet Protocol Version 6 implementation
- Without JTRS, the tactical warfighter will not be connected to the GIG

JTRS makes the goals of Transformation a warfighting reality for the Joint warrior at the tactical edge

JTRS Background
Action Taken First Ten Months

- Assessed Program Clusters for cost, schedule and performance
- Initiated draft replan of Clusters 1 / 5 / AMF / Joint Waveforms
  - Reduced high risk programs to moderate risk, incremental development approach to satisfy initial warfighter priorities
- Established and strengthened an overall JTRS management structure
  - Created a centralized JPEO organization with clear R&R, accountability and reporting
  - Established processes for overall systems engineering across programs

International Opportunities

GMR (formerly Cluster 1)	Ground Mobile Radio - Increment 1 is funded; however export will be restricted until Increment 2 is implemented (which is not funded at this time.) Availability Unknown.
SOF (formerly Cluster 2)	Special Operations Forces - Export restricted until completion of a required upgrade is funded and executed. Availability Unknown.
AMF	Airborne, Maritime and Fixed - Increment 1 is funded and program on track for Security Certification. Info will be passed as it becomes available.
MIDS JTRS	Multifunctional Information Distribution System - Although MIDS Nations may be "licensed" to build MIDS J for their use, control of FMS sales rests with the US. Will begin working with PMW 780, NIPO and DSCA on export release following successful CDR. Availability projected as FY09.
HMS (formerly Cluster 5)	Handheld, Manpack and Small Form Fit - On track for Security Certification and export. Will coordinate with PM and DCSA following successful CDR. Availability projected as FY10.

The re-plan results essentially did not affect the availability of JTRS for International use

International Considerations

- To perpetuate interoperability, we are working the following:
  - Release, control, and methodology for distribution of JTRS Hardware and Software
  - Distribution and loading of OE updates, WFs, and reloading of software after maintenance actions
  - O-, I-, and D-level maintenance procedures and Support Equipment availability
  - Release of necessary documentation

The JPEO International Team is partnering with NSA to lay foundation for 3rd party customers

US/UK C4I Interoperability

- US/UK MOU: Cooperative participation in Research and Development (Apr 2000)
  - Tactical Communications PA DOD-MOD-A-02-0014 (Sep 2002);
    - US/UK Plenary: CONOPS, Security, and Technical WGs
    - Bowman/Pritchell Project: Demonstrate interoperability between JTRS radio and UK Bowman PDR

UK Interest Issues

- Discussion of interest items:
  - Radio interests?
  - WF interests?
- Other areas where we may be of assistance

BACK-UP

JTRS Background
Program Overview (Prior to JPEO Stand-Up)

- Cluster 1 – Ground and Vehicular
  - Managed by the Army's Program Manager for WIN-T (part of PEO-C3T)
  - Support requirements for Army Aviation Rotary Wing, Air Force Tactical Control Party (TACP), and Army and USMC Ground Vehicular platforms
- Cluster 2 – Handheld Multi-Band Intra-Team Radio
  - Managed by Special Operations Command (SOAL-IIS-PMC4)
  - Support requirements for handheld radios for the Army, Navy, Marine Corps, and Air Force Special Operations Forces
- Cluster AMF – Airborne and Maritime/Fixed Station
  - Jointly managed by Air Force and Navy, with ESC/NI4 Hanscom taking the initial, rotational lead
  - Support requirements for airborne, maritime, and fixed station platforms for all Services

JTRS Background
Program Overview (Prior to JPEO Stand-Up)

- Cluster 5 – Handheld, Manpack, and Small Form Fit
  - Managed in conjunction with the Army's Program Manager for WIN-T (part of PEO-C3T)
  - Support requirements for JTRS handheld and manpack units and forms suitable for integration into platforms requiring a Small Form Fit radio
- MIDS-JTRS
  - Managed by the Navy's PEO C4I and Space
  - Migrate the current MIDS-LVT to JTRS compliance producing the next generation data link and communication terminal for joint and coalition tactical platforms
- JTRS Joint Program Office (JPO) (now Joint Waveforms Program Office)
  - Management oversight from USD (AT&L), ASD (NII), and the Army
  - Responsible for the waveform development, cryptographic equipment applications, and architectural integrity of JTRS